Winter Creel Survey Report for Hamlin Lake, Mason County, 2019

Waterbody Hamlin Lake

Year 2019

County Mason County Sites hamlinlake

Survey period January 1 to March 23

Survey design Roving (instantaneous)-roving

Count methods/modes Roving (instantaneous)/open ice and shanty

Clerk time full time (10-hour shifts)

Survey purpose Characterize general effort and catch aspects of the fishery

Notes

This survey followed a roving (instantaneous)-roving design. Funding was provided by the Federal Aid to Sport Fish Restoration Project F-81, Study 230499. One clerk worked full time to collect angling survey data. Two week days and two weekend days were randomly selected for sampling during each week of the survey season. No holidays were sampled. Clerks followed a randomized count and interview schedule. One of two 10-hour shifts was selected each sample day. The entire water body was sampled each day. Starting location and direction of travel were randomized for both counting and interviewing. Roving (instantaneous) counts of open ice and shanty anglers were made once per day. Survey period for both counts and interviews was January 1 to March 23. Months were estimated separately. Estimates are available for open ice and shanty. "NAN" in a table means there was not enough information to make a calculation.

Table 1.—Daylight hours used to estimate catch and effort each month of Hamlin Lake winter creel survey from January 1 to March 23, 2019.

Year	Month	Daylight Hours
2019	January	12
2019	February	13
2019	March	13

Table 2.—Estimated harvest, catch per hour, and fishing pressure for Hamlin Lake open ice fishery. Two standard errors are given below the estimates.

Species	C/H	January	February	March	Season
HARVEST					
Walleye	0.0018	_	9	_	9
	0.0038	_	18	_	18
Northern pike	0.0579	261	22	_	283
	0.0709	322	31	_	324
Yellow Perch	0.0658	147	112	62	322
	0.0504	158	80	100	203
Bluegill	1.6466	6,157	1,748	135	8,040
	1.2638	5,021	840	209	5,095
Pumpkinseed	0.1893	42	802	80	924
	0.1466	84	574	126	593
Rock bass	0.0095	_	_	47	47
	0.0230	-	_	111	111
Black crappie	0.5226	1,053	1,187	312	2,552
	0.3704	980	915	503	1,432
TOTAL HARVEST	2.4935	7,660	3,880	636	12,176
	1.5369	5,129	1,371	578	5,340
RELEASED	0.4000	000	0.5		075
Northern pike	0.1996	890	85	_	975
1 (1.1	0.1967	860	67	_	863
Largemouth bass	0.0331	136	26	_	162
0	0.0360	157	36	_	161
Smallmouth bass	0.0086	42	_	_	42
Vallau Darah	0.0170	81 2 591	2 160	600	81
Yellow Perch	1.5232	3,581	3,169	688	7,438
Bluegill	1.2190 1.2741	3,756 4,308	1,840 1,811	NAN 102	5,006 6,221
biuegiii	0.9614	3,715	974	168	3,845
Pumpkinseed	0.9014	3,713	214	100	214
r umpkinseeu	0.0430	_	263	_	263
Rock bass	0.0372	_	200	155	155
NOON Dass	0.0310	_	_	368	368
Black crappie	0.1771	190	550	125	865
ышык огаррю	0.1396	291	435	223	569
Spottail shiner	0.0074	_	-	36	36
opottan omnor	0.0143	_	_	68	68
TOTAL RELEASED	3.2988	9,147	5,855	1,106	16,108
TO THE TREE ROLD	2.0641	5,364	2,144	NAN	7,275
TOTAL CATCH	5.7922	16,807	9,734	1,742	28,284
· · · · · · · · · · · · · · · ·	3.1156	7,421	2,545	NAN	9,025
ANGLER HOURS		2,823	1,628	432	4,883
		2,012	428	491	2,115
ANGLER TRIPS		747	514	101	1,362
· · · · · · · · · · · · ·		560	187	131	604
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Table 3.—Estimated harvest, catch per hour, and fishing pressure for Hamlin Lake shanty fishery. Two standard errors are given below the estimates.

Species	C/H	January	February	March	Season
HARVEST					
Walleye	0.0036	_	32	12	44
	0.0044	_	42	18	46
Northern pike	0.0289	177	152	20	348
·	0.0281	220	137	28	261
Yellow Perch	0.0688	357	427	45	829
	0.0588	365	314	58	486
Bluegill	0.9105	9,834	1,094	39	10,967
J	0.9023	8,383	1,126	55	8,459
Pumpkinseed	0.1727	1,577	469	34	2,080
	0.2782	3,050	500	67	3,091
Black crappie	0.3410	2,629	981	496	4,107
	0.3047	2,441	856	503	2,635
Muskellunge	0.0007	_,	9	_	9
	0.0015	_	17	_	17
TOTAL HARVEST	1.5262	14,575	3,162	645	18,382
10171211711(1201	1.2291	9,259	1,539	515	9,400
RELEASED		,	,		
Walleye	0.0036	_	38	6	43
, .	0.0048	_	51	11	52
Northern pike	0.0585	525	165	15	705
, , , , , , , , , , , , , , , , , , ,	0.0519	433	104	20	446
Largemouth bass	0.0316	297	84	_	381
g	0.0429	452	75	_	459
Yellow Perch	0.8565	4,886	3,809	1,620	10,315
	0.6615	3,873	2,243	1,502	4,721
Bluegill	0.8975	9,407	1,378	25	10,810
3	1.1332	11,781	1,500	50	11,877
Pumpkinseed	0.0327	373	21	_	394
	0.0662	758	28	_	758
Rock bass	0.0100	9	98	13	120
	0.0147	18	157	27	161
Black crappie	0.1031	119	930	194	1,242
2.00.000	0.1087	196	1,016	218	1,057
Muskellunge	0.0007	_	9		9
	0.0015	_	17	_	17
Spottail shiner	0.0718	64	138	662	864
opotton ormion	0.0856	100	146	862	880
TOTAL RELEASED	2.0660	15,679	6,670	2,535	24,884
. O I AL I ALLLA OLD	1.6728	12,442	2,895	1,747	12,894
TOTAL CATCH	3.5922	30,254	9,832	3,180	43,266
I O I / LE O/ LI OI I	2.5980	15,509	3,279	1,821	15,956
ANGLER HOURS	2.0000	6,343	4,072	1,629	12,044
ANOLLIVITOUNG		3,516	1,149	NAN	7,493
ANGLER TRIPS			936	419	2,647
ANGLER IRIPS		1,292 742		-	
		142	295	NAN	1,857

Table 5.—Estimated harvest, catch per hour, and fishing pressure for Hamlin Lake all fishing modes combined. Two standard errors are given below the estimates.

HARVEST Walleye	Species	C/H	January	February	March	Season
Northern pike	HARVEST					
Northern pike	Walleye	0.0031	_	41	12	53
Northern pike	•	0.0034	_	46	18	49
Yellow Perch	Northern pike		437	174		
Yellow Perch 0.0679 504 539 107 1,150 Bluegill 1.1228 15,992 2,841 174 19,007 Dumpkinseed 0.1774 1,619 1,270 114 3,004 Pumpkinseed 0.1774 1,619 1,270 114 3,004 Rock bass 0.0027 - - 47 47 0.0067 - - 111 111 Black crappie 0.3934 3,682 2,168 809 6,658 0.2788 2,630 1,253 711 2,999 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 TOTAL HARVEST 1.8052 22,335 7,042 1,281 30,558 RELEASED Walleye 0.0025 - 38 6 43 Walleye 0.0025 - 38 6 43 Northern pike 0.0992 1	, , , , , , , , , , , , , , , , , , ,					
Bluegill	Yellow Perch					
Bluegill	10110111					
Pumpkinseed 0.8474 9,772 1,405 216 9,875 Pumpkinseed 0.1774 1,619 1,270 114 3,004 Rock bass 0.0027 - - 47 47 0.0067 - - 1111 111 Black crappie 0.3934 3,682 2,168 809 6,658 0.2788 2,630 1,253 711 2,999 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 TOTAL HARVEST 1.8052 22,235 7,042 1,281 30,558 RELEASED 1.1766 10,584 2,062 774 10,811 RELEASED Walleye 0.0025 - 38 6 43 Northern pike 0.0992 1,415 250 15 1,680 Northern pike 0.0993 1,415 250 15 1,680 Northern pike 0.0992<	Bluegill					
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Muskellunge 0.2788 2,630 1,253 711 2,999 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 TOTAL HARVEST 1.8052 22,235 7,042 1,281 30,558 1.1766 10,584 2,062 774 10,811 RELEASED Walleye 0.0025 - 38 6 43 0.0034 - 51 11 52 Northern pike 0.0992 1,415 250 15 1,680 0.0790 963 124 20 971 Largemouth bass 0.0321 433 110 - 543 Smallmouth bass 0.0025 42 - - 42 Yellow Perch 1.0488 8,467 6,979 2,308 17,753 Yellow Perch 1.0488 8,467 6,979 2,308 17,753 0.8706 5,395 2,901 NAN	DI I			-		
Muskellunge 0.0001 - 9 - 9 0.0011 - 17 - 17 TOTAL HARVEST 1.8052 22,235 7,042 1,281 30,558 1.1766 10,584 2,062 774 10,811 RELEASED Walleye 0.0025 - 38 6 43 Northern pike 0.0034 - 51 11 52 Northern pike 0.0992 1,415 250 15 1,680 0.0790 963 124 20 971 Largemouth bass 0.0321 433 110 - 543 0.0337 479 84 - 486 Smallmouth bass 0.0025 42 - - 42 Smallmouth bass 0.0025 42 - - 42 - - 486 Smallmouth bass 0.0025 42 - - 42 - - 42 Yellow Perch <td>Black crappie</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Black crappie					
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TOTAL HARVEST 1.8052 22,235 7,042 1,281 30,558 RELEASED 1.1766 10,584 2,062 774 10,811 Walleye 0.0025 - 38 6 43 0.0790 963 124 20 971 Largemouth bass 0.0321 433 110 - 543 Smallmouth bass 0.0025 42 - - 42 0.0337 479 84 - 486 Smallmouth bass 0.0025 42 - - 42 0.0050 81 - - 81 Yellow Perch 1.0488 8,467 6,979 2,308 17,753 0.8706 5,395 2,901 Nan 11,078 Bluegill 1.0061 13,715 3,189 127 17,031 0.9204 12,353 1,789 175 12,483 Pumpkinseed 0.0359 373 235 - 608	Muskellunge		_		-	
Northern pike	-		-		-	
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Walleye 0.0025 - 38 6 43 0.0034 - 51 11 52 Northern pike 0.0992 1,415 250 15 1,680 0.0790 963 124 20 971 Largemouth bass 0.0321 433 110 - 543 0.0337 479 84 - 486 Smallmouth bass 0.0025 42 - - 42 0.0050 81 - - 81 Yellow Perch 1.0488 8,467 6,979 2,308 17,753 0.8706 5,395 2,901 NAN 11,078 Bluegill 1.0061 13,715 3,189 127 17,031 0.9204 12,353 1,789 175 12,483 Pumpkinseed 0.0359 373 235 - 608 0.0513 758 265 - 803 Rock bass 0.0163 <td></td> <td>1.1766</td> <td>10,584</td> <td>2,062</td> <td>774</td> <td>10,811</td>		1.1766	10,584	2,062	774	10,811
Northern pike	RELEASED					
Northern pike	Walleye	0.0025	_	38	6	43
Northern pike 0.0992 1,415 250 15 1,680 0.0790 963 124 20 971 Largemouth bass 0.0321 433 110 - 543 0.0337 479 84 - 486 Smallmouth bass 0.0025 42 42 0.0050 81 - 81 Yellow Perch 1.0488 8,467 6,979 2,308 17,753 0.8706 5,395 2,901 NAN 11,078 Bluegill 1.0061 13,715 3,189 127 17,031 0.9204 12,353 1,789 175 12,483 Pumpkinseed 0.0359 373 235 - 608 0.0513 758 265 - 803 Rock bass 0.0163 9 98 169 275 0.0254 18 157 369 402 Black crappie 0.1245 308 1,480 319 2,107 0.0983 351 1,105 312 1,201 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 Spottail shiner 0.0532 64 138 698 901 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 NAN 9,266 ANGLER TRIPS 2,039 1,450 520 4,009	,		_			
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Black crappie 0.0254 18 157 369 402 Black crappie 0.1245 308 1,480 319 2,107 0.0983 351 1,105 312 1,201 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 Spottail shiner 0.0532 64 138 698 901 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 4,051 1,227 NAN 9,266 ANGLER TRIPS 2,039 1,450 520 4,009					-	
Black crappie 0.1245 308 1,480 319 2,107 0.0983 351 1,105 312 1,201 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 Spottail shiner 0.0532 64 138 698 901 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 4,051 1,227 NAN 9,266 ANGLER TRIPS 2,039 1,450 520 4,009	Rock bass	0.0163		98	169	275
Muskellunge 0.0983 351 1,105 312 1,201 Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 Spottail shiner 0.0532 64 138 698 901 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 4,051 1,227 NAN 9,266 ANGLER TRIPS 2,039 1,450 520 4,009		0.0254	18		369	402
Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 Spottail shiner 0.0532 64 138 698 901 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 4,051 1,227 NAN 9,266 ANGLER TRIPS 2,039 1,450 520 4,009	Black crappie	0.1245	308		319	2,107
Muskellunge 0.0005 - 9 - 9 0.0011 - 17 - 17 Spottail shiner 0.0532 64 138 698 901 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 4,051 1,227 NAN 9,266 ANGLER TRIPS 2,039 1,450 520 4,009		0.0983	351	1,105	312	1,201
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Spottail shiner 0.0532 0.0597 100 146 865 883 TOTAL RELEASED 2.4216 24,827 12,524 3,641 40,992 1.7842 13,549 3,602 NAN 20,215 TOTAL CATCH 4.2269 47,061 19,566 4,922 71,549 2.6810 17,193 4,151 NAN 22,924 ANGLER HOURS 9,167 5,700 2,061 16,927 NAN 9,266 4,051 1,227 NAN 9,266 NANGLER TRIPS ANGLER TRIPS 2,039 1,450 520 4,009	Ŭ		_	17	_	17
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